

TAICUN LIN (林泰村)

AIOT Software Engineer

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SUMMARY

Windows: C# , Winform, powershell

Linux: Python, Pygtk, shell

Web: ASP.NET, IIS

Toolkit/lib: OpenCV, OpenVINO, node-red, Tensorflow, Git, Docker

- **8 years on AIOT/Cloud project by full stack and software/hardware integrate.** Write script, data collection, training model, AI inference, received message by mqtt protocol, save rawdata and ai inference result to database, sensor/IO control, integrate partner solution, third-party toolkit, customer IT system, programing dashboard UI.
- **Technical Support:** Solve issue, customize script/tools
- **Technical Marketing:** Support event, demo, workshop, training

EDUCATION

MASTER in National Taiwan University - Medical Device and Image

BACHELOR in FuJen University - Computer Science and Information

EXPERIENCE

iEi Pr. AI Application Engineer

in iEi

2023/04 – Present

- ✓ **AI Solution** – Focus on Intel toolkits, and base on it to design iEiAI solution. Use my Intel experience to lead our AI project. Survey OpenVINOModel Zoo. Find a stand out model and make a demo application for showcase. Validate Intel AIPC CPU/iGPU/dGPU/NPU performance, OpenVINObenchmark, OpenVINOOpen Model Zoo benchmark on iEiTANK-XM811. Just like validate Qualcomm AIPC CPU/GPU/DSP performance, SNPE benchmark, AIMET Model Zoo on advantechROM-2860. Integrate AI, software, edge-device(IPC), customer-device to build a solution.
- ✓ **Technical Marketing** – Public event link: [ComputeX2023\(text-to-image\)](#), [AutomationTPE2024](#)
- ✓ **Survey competitor** – We not only work on Intel platform, also survey AMD, Qualcomm-QCM6490, Hailo, Rock-Chip, Axelera, DeepX. For compare their performance benchmark.

BlueSkies.AI
AI Vision as a Service

Service Manager

in Blueskies.AI (INTEL)
*ISP for Intel project

2021/06 – 2022/11

- ✓ **AI Model Training** – Use partner AI training tool to train model, and coordinate with customer for collect image for improve accuracy rate.
- ✓ **AIoT Full Stack Development** –
 - Sensor(Input)** - Base on python/pylon/openvc script to collect and image process from basler camera
 - Gateway** - Filter raw data, post data to server, and I/O control
 - AI Inference** - Will inference twice. First inference for define which production, and filter out empty object on conveyor. Second inference for define this production is defect or good.
 - Server** - data management, and training model. Base on MQTT/ZMQ protocol for message payload
 - System Integrate** - Integrate Third-party software, such as node-red/intel solution/customer IT system.
 - Sensor(Output)** - Base on AI inference result. If result is defect, will trigger led and speaker alert
 - Edge Client** - Programing Ubuntu dashboard UI by python/gtk. Customer can get any information from this dashboard.
- ✓ **Technical Support** – Support customer any issue on our production. And deploy it to factory.
- ✓ **Web Development** – Develop Blueskies.AI website by Webflow tools.

EXPERIENCE


IOT Software Engineer
in INTEL
2015/11 – 2021/05

✓ **AIoT/Cloud Project Development -**

*Base on project requirement to use different skill

Sensor/IO - Input, collect all sensor raw data, such as temperature ,humidity ,and camera

Output, control all equipment, such as motor, gate and led.

Gateway/PLC - Edge all in one, such as face detection, gate control, and PC camera

P2P, filter and upload data to server, and inference result to control I/O

Server/DB/Cloud - Surveillance of equipment, such as temperature, motor, personnel access

Record alert information, such as abnormal motor value

Remote control all factory equipment in the world

AI inference result and training new model

Programing - Base on customer IT system to use C#(Windows)/Python(Linux), and then base on project requirement to use Intel/customer/ODM/OEM/Third-party toolkit, such as OpenVINO for AI inference and accelerate, OpenCV/Pylon for image process, TensorFlow/python for training model, node-red for connect IOT devices, PLC for control sensor, and SQLServer/MySQL/MongoDB...etc. Finally programing a dashboard to monitor IOT devices. Base on project requirement, programing by Winform(Windows)/GTK(Linux)/Web/ Cloud dashboard/Customer IT dashboard.

Integrate/Deploy/Customized - Deploy Intel solution to client, provide OpenVINO for AI inference and accelerate, EII for edge computing, TLS for training model. We also work on integrate customer IT system. And integrate third party Cloud, such as AWS/Azure/Windows. And toolkit, such as TensorFlow/pylon. Because Intel solution not for specific customer. So, we need some customize script for integrate customer system.

✓ **Technical Support** - Provide demo for support sales to promote Intel solution

Because CPU information not easy to understand. So I will programing benchmark/script.

Customize script for integrate different platform, such as TF/OpenVINO transformant.

Issue ticket tracking, and solve any issue on Intel solution

Power-on test with backend team and ODM before new platform release.

✓ **Technical Marketing** - Provide demo POC include Intel/ODM solution, and join popular event, such as computex, Hanover Fair, CIIF...etc. Provide new platform demo to customer site. Host Intel platform workshop and training. Maintain Intel and response tech forum.

Public event link: [ComputeX2016\(GreenHouse\)](#) , [ComputeX2019\(Factory\)](#) , [Edge AI Forum](#)

✓ **Intel Developer Forum** - Post idea to internal innovation forum about AI gesture.

✓ **Matchmaking** - Matchmaking for client, ODM/OEM, ISP, and Cloud vendor. Promote Intel solution and coordinate requirement in different partner system. Study partner system document and design AIoT architecture.

EXPERIENCE



Technical Account Manager in Microsoft

2014/08 – 2015/07

- ✓ **Technical Support** – Using Powershell/C#/.NET to make script of AD/LDAP account management. Develop and build a Web services for control share folder permission on windows server. automation and analysis IIS Server log. Exchange account batch transfer script. Windows/Exchange/AD/Lync Server deployment. MS production training and make document.
- Project Management** – Co-work with SI partner for special project. Project tracking, response customers requirement, customize technical support, project and production training, test and validation.



Security Engineer

in Acer

2013/07 – 2014/07

- ✓ **Web Vulnerability Assessment** – Using web vulnerability assessment to scan customer website. Official vulnerability such as OWASP top 10. And validate the scan result. According the result to make a report and provide suggestion.
- ✓ **Function Test** – Test ACER internal web service per every release. Test validate all frontend/backend function. Response the result to engineer team.

OTHER EXPERIENCE



Holiday Customer Engineer in TIIS(東宜資訊)

2012/03 – 2017/07

- ✓ 12hr Online IT Helpdesk – provide PC/POS issue helpdesk, help customer resolve issue.
- ✓ Call Center – If customer issue can't be resolve or HW issue, will arrange engineer on-site.



Summer Intern

in IISI(資拓宏宇)

2013/07 – 2013/08

- ✓ New Service Assist – Help government new service release. Taring and teaching government employee.

Part-Time Job

2009/10 – 2012/03

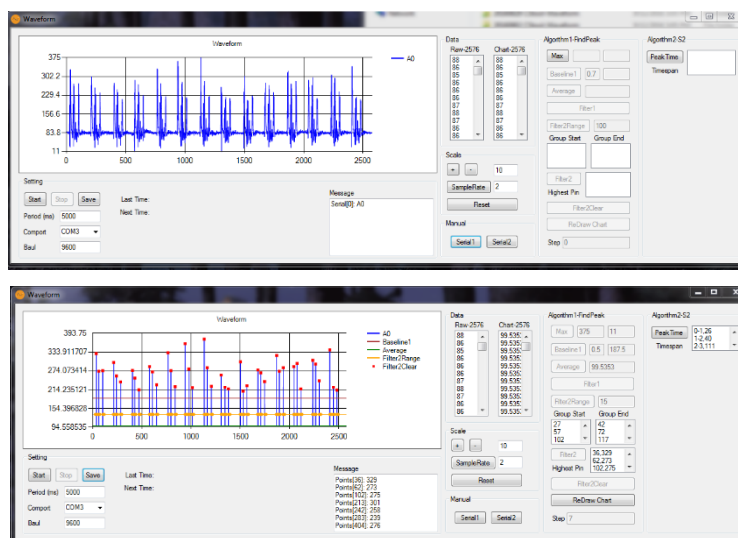
- ✓ Part-time of restaurant/banking/advertising

EDUCATION

MASTER in National Taiwan University - Medical Device and Image

2015/10 – 2018/01

- ✓ **THESIS** – ECG/Heart sound disease identification
- ✓ **MCU programing** – Drive Sensor, Collect raw data, noise removal algorithm
- ✓ **Human subject research** – Download disease data from public website, and human subject research on NTU hospital.
- ✓ **Development medical device** – Co-work and integrate difference physiological/SW/HW background classmate to develop telemedicine device. Research and collect disease data, drive HW to control sensor, MCU programing for remove noise and simply analysis raw data, transfer data to cloud for advance analysis, and show the result on device monitor or printer.



BACHELOR in Fu Jen Catholic University - Computer Science and Information

2009/09 – 2014/06

- ✓ **THESIS** – Using C#/XNA/Kinect to develop bowling motion sensing game.
- ✓ **Learning** – Using JAVA/C# to develop Web and windows app and algorithm.